

**OPTICAL DEVICE AND METHOD THEREFOR**

## Abstract of the Disclosure

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An optical device uses one or more doped pockets in one embodiment to increase the electric field at one or more edges of the light absorbing region to increase the efficiency of the optical device. In alternate embodiments, the optical device uses an overlying light-barrier layer to reduce optical absorption within the more highly doped region. Some embodiments use a comb-like structure for the optical device to reduce capacitance and create a planar CMOS compatible structure.

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